



Romblon State University  
**COLLEGE OF ENGINEERING AND TECHNOLOGY**  
Odiongan, Romblon  
Tel.no. (042) 567-5588

**COMPILATION OF UNDEGRDUATE THESES**  
**(As of March 2021)**

Compiled by:

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<https://rsucivilengineering.weebly.com>

Control No.	CIVIL ENGINEERING Title	Date Submitted
RSU-CE-092	Profiling of the Taboboan River	January 2021
RSU-CE-091	Optimizing the levels of cement, marble dust and carbonized rice hull for concrete	January 2021
RSU-CE-090	Design of Drainage System of Poblacion San Andres, Romblon	January 2021
RSU-CE-089	Profiling of Poctoy and Dapawan river in determining flood prone areas	January 2021
RSU-CE-088	Development and Testing of a modified vertical helophyte system for the Romblon State University- College of Engineering and Technology Building	January 2021
RSU-CE-087	Use of Peanut Shell Ash as additive to cement bonded composites with waste chicken feathers as reinforcement	January 2021
RSU-CE-086	PrOposed Road Network for Romblon State University in Agpudlos, San Andres	January 2021
RSU-CE-085	Assessment of National and Provincial road condition in the Municipality of Odiongan	December 2020
RSU-CE-084	Design Study for a Village Coconut processing plant located at Sta. Maria, Romblon	December 2020
RSU-CE-083	Banana Leaf Ash as partial replacement for cement in concrete	November 2020
RSU-CE-082	Treated Pulverized Seashells as Strength Accelerating Admixture for Concrete Pavement	November 2020
RSU-CE-081	Proposed Design of Water System for Barangay Pangulo, Municipality of Calatrava	October 2020
RSU-CE-080	Physical and Mechanical Properties of Drywall made from Paper Waste using Cassava Starch as binder	October 2020



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<b>RSU-CE-079</b>	Development of Bamboo Laminated Plyboard for Students Desks	October 2020
<b>RSU-CE-078</b>	Juice Drink Doypack as an Alternative Slope Protection	September 2020
<b>RSU-CE-077</b>	Study of waste glass powder and marble dust mixture as partial replacement of cement on concrete	September 2020
<b>RSU-CE-076</b>	Design study of Flood Control System of the Romblon State University- Main Campus	July 2019
<b>RSU-CE-075</b>	Proposed Design of a Water Supply System in Barangay Balogo, Calatrava Romblon	May 2019
<b>RSU-CE-074</b>	Initial Environmental Examination of the Road Network in Romblon State University – Agpudlos Development Project	March 2019
<b>RSU-CE-073</b>	Compressive Strength of concrete using fine aggregates from selected quarry sites in Odiongan, Romblon	March 2019
<b>RSU-CE-072</b>	Effect of Marble Nanoparticles as Additive on the Physical and Mechanical properties of Concrete Mixes	March 2019
<b>RSU-CE-071</b>	Determination of Mechanical and Physical properties of Marbles in the Province of Romblon	March 2019
<b>RSU-CE-070</b>	Design study for Proposed Access Road, Main gate and Academic Oval of Romblon State University	March 2019
<b>RSU-CE-069</b>	Shear and Tensile Properties of Kawayan Tinik ( <i>Bambusa blumeana</i> , Schult. and Schult.f.) and Patong ( <i>Dendrocalamus latiflorus</i> , Munro)	March 2019
<b>RSU-CE-068</b>	Assessment And Evaluation Of Existing Drainage System Of The Town Proper Of Municipality Of Odiongan, Romblon	April 2018
<b>RSU-CE-067</b>	The Effects Of Particle Size Coarse Aggregates On The Compressive Strength Of Concrete From Selected Quarry Sites In Tablas Island, Romblon	April 2018
<b>RSU-CE-066</b>	Design Of Rainwater Harvesting System Of The 2-Storey Academic Building For The College Of Engineering And Technology, Romblon State University (Main Campus)	April 2018
<b>RSU-CE-065</b>	Improvement Of The Existing Water System In Bagsik, Alcantara, Romblon	May 2017
<b>RSU-CE-064</b>	Proposed RSU Sports Arena	May 2017
<b>RSU-CE-063</b>	Proposed Improvement Of Budiong-Bangon Road, Odiongan, Romblon	April 2017
<b>RSU-CE-062</b>	Proposed 3-Storey College Of Engineering And Technology Building Romblon State University Main Campus	April 2017
<b>RSU-CE-061</b>	Design And Analysis Of Water Supply System Of RSU-Agpudlos Campus, San Andres, Romblon	April 2017



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<b>RSU-CE-060</b>	Thermal And Acoustic Properties Of Tiger Grass Pollen Insulation Material With Arrowroot Starch As Binder	February 2017
<b>RSU-CE-059</b>	Comprehensive Land Use Plan Of Romblon State University Main Campus	August 2016
<b>RSU-CE-058</b>	Profiling Of Bangon River System In The Municipality Of Odiongan	August 2016
<b>RSU-CE-057</b>	Development Of Timber Truss Analysis Software Application	August 2016
<b>RSU-CE-056</b>	Cost Estimate Project Management And Structural Design Analysis Of The Proposed Facilities For Romblon State University Agpudlos Campus, San Andres, Romblon	June 2016
<b>RSU-CE-055</b>	Compressive Strength Of Concrete Reinforced With Banana Fibers	January 2015
<b>RSU-CE-054</b>	Styrofoam Dissolved In Gasoline As An Adhesive For Particle Board	January 2015
<b>RSU-CE-053</b>	Assessment Of Indoor Air Quality In Romblon State University Main Campus Building	January 2015
<b>RSU-CE-052</b>	Proposed Improvement Of Romblon State University Irrigation Water Distribution System	January 2015
<b>RSU-CE-051</b>	Proposed RSU Eco-Park	March 2015
<b>RSU-CE-050</b>	Sound Absorption Characteristic Of Coconut Husk Acoustic Panel Using Different Types Of Binders	March 2015
<b>RSU-CE-049</b>	Compressive Strength Of Concrete Using Tiger Grass As Fiber Reinforcement	March 2015
<b>RSU-CE-048</b>	Factors Affecting The Compressive Strength Of Concrete Using Aggregates From Selected Quarry Sites In Odiongan, Romblon	March 2015
<b>RSU-CE-047</b>	Proposed Solid Waste Management Plan Of Romblon State University, Main Campus	March 2015
<b>RSU-CE-046</b>	Evaluation And Improvement Plan Of Existing Water System Of Cawayan-Long Beach, San Agustin, Romblon	March 2014
<b>RSU-CE-045</b>	Modified Interlocking Precast Concrete Blocks For Fence Wall: Prototype	March 2014
<b>RSU-CE-044</b>	Compressive Strength Of Concrete Using Aggregates From Different Quarry Sites In Odiongan, Romblon	March 2014
<b>RSU-CE-043</b>	Comparative Analysis Of Concrete's Compressive Strength Using Ilang-Ilang ( <i>Cananga Odorata</i> ), Paper Tree ( <i>Gmelina Haenanensis</i> ) And Coconut ( <i>Cocos Nucifera</i> ) Sawdust As A Full Replacement For Sand	March 2014
<b>RSU-CE-042</b>	Plastic Waste Material As Partial Substitute For Sand In Concrete Bricks	March 2014



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<b>RSU- CE-041</b>	Design And Development Of Portable Concrete Mixer	March 2013
<b>RSU-CE-040</b>	Designed Household Waste Water Treatment Facility Model : Modified	March 2013
<b>RSU-CE-039</b>	Design And Fabrication Of Mechanical Sieve Machine	March 2013
<b>RSU-CE-038</b>	Design And Development Of Mechanical Brick Molding Machine	March 2013
<b>RSU-CE-037</b>	Design Of Wastewater Treatment Facilities In Odiongan Public Market, Odiongan, Romblon	April 2012
<b>RSU-CE-036</b>	NSCP 2001 And NSCP 2010: A Comparative Analysis	June 2012
<b>RSU-CE-035</b>	Household Wastewater Treatment Facility: A Proposed Model	April 2012
<b>RSU-CE-034</b>	Safety First: An Assessment Of Health And Safety Culture Among Construction Workers In The Province Of Romblon	April 2012
<b>RSU-CE-033</b>	Proposed Development Of Existing Drainage System Of Selected Flooded Areas In Barangay Poctoy And Barangay Dapawan, Odiongan Romblon	April 2012
<b>RSU-CE-032</b>	Design And Fabrication Of Mechanical Sieve Shaker	February 2012



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Control No.	MECHANICAL ENGINEERING Title	Date Submitted
RSU-ME-036	Development and evaluation of cabinet type coco-husk fueled copra dryer	March 2019
RSU-ME-035	Development and Evaluation of an Automated Fish Smokehouse Machine	March 2019
RSU-ME-034	Evaluation of the Effectiveness of different absorbents in Dehumidified Air Dryer	March 2019
RSU-ME-033	Design, Development And Testing Of Turnstile Energy Harvester	April 2018
RSU-ME-032	Design, Fabrication And Performance Test Of A Prototype Jackfruit Peeling And Slicing Machine	April 2018
RSU-ME-031	Design, Development And Testing Of Multi Root Crop Washing Machine	April 2018
RSU-ME-030	Design Fabrication And Performance Evaluation Of Coin Slotted Automatic Shoe Polishing Machine	April 2017
RSU-ME-029	Development And Modification Of A Mechanical Mango Picker	April 2017
RSU-ME-028	Design And Fabrication Of A Prototype Steamed Rice Dehumidifier	April 2017
RSU-ME-027	Design, Development And Evaluation Of A Solar Powered Agricultural Sprayer	April 2017
RSU-ME-026	Design And Development Of Rice Straw Twining Machine	May 2016
RSU-ME-025	Development Of An Air-Conditioning Trainer Unit For Instructional Purposes	May 2016
RSU-ME-024	Development Of Refrigerator Trainer Unit For Instructional Purposes	May 2016
RSU-ME-023	Design, Fabrication And Performance Evaluation Of A Modified Manually Operated Rice Seeder	April 2015
RSU-ME-022	Design, And Fabrication Of Polyethylene Terephthalate (Pet) Bottle Shredder	May 2015
RSU-ME-021	Design And Development Of Prototype Charcoal Fired Bibingka Oven	March 2014
RSU-ME-020	Development And Test Of A Mechanical Whiteboard Eraser	March 2014
RSU-ME-019	Design And Fabrication Of Pelleting Machine	March 2014
RSU-ME-018	Design And Development Of A Water Pump Powered By Flowing Water	March 2014
RSU-ME-017	Design And Fabrication Of Combined Cassava Peeler And Cleaner Machine	April 2013



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<b>RSU-ME-016</b>	Design And Development Of A Small Capacity Mungbean Shelling Machine	April 2013
<b>RSU-ME-015</b>	Design And Development Of A Peanut Roaster Machine	April 2013
<b>RSU-ME-014</b>	Design And Construction Of Snail Remover	March 2012
<b>RSU-ME-013</b>	Cassava Chipper And Grater: A Dual- Purpose Machine	March 2012
<b>RSU-ME-012</b>	Ricehull-Fed Dryer: Design, Construction And Initial Testing Of Cassava Chips Dryer	March 2012
<b>RSU-ME-011</b>	Modification And Performance Testing Of Tiger Grass Pollen Remover	March 2012
<b>RSU-ME-010</b>	Design And Fabrication Of Screw Conveyor	March 2012
<b>RSU-ME-009</b>	Portable Rice Dryer: Design And Construction Of A Flat Bed Dryer	April 2011
<b>RSU-ME-008</b>	Tiger Grass Pollen Remover: Design And Construction	April 2011
<b>RSU-ME-007</b>	Design And Construction Of Biomass Briquetting Machine	March 2010
<b>RSU-ME-006</b>	Design And Construction Of Cassava Grating Machine	March 2010
<b>RSU-ME-005</b>	Test Performance Of The Modified Rice Hull Gasifier Stove Developed At The Romblon State University- College Of Engineering And Technology	March 2010
<b>RSU-ME-004</b>	Design And Construction Of Briquetting Machine	March 2010
<b>RSU-ME-003</b>	Design And Construction Of An Air-conditioning System Using Water As Refrigerant	May 2009
<b>RSU-ME-002</b>	Design And Construction Of Aggregate Sieve Machine	April 2008
<b>RSU-ME-001</b>	Design And Construction Of Reel Mower Machine	March 2007





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Control No.	ELECTRICAL ENGINEERING Title	Date Submitted
<b>RSU-EE-048</b>	Design and Development of a microcontroller based Solar Photovoltaic (PV) pump controller	July 2020
<b>RSU-EE-047</b>	Design and Development of an Automatic Power factor correction device for IIT at the Romblon State University- Main Campus	July 2020
<b>RSU-EE-046</b>	Maximization of Solar Photovoltaic Energy capture using combined passive cooling and solar tracking	July 2020
<b>RSU-EE-045</b>	Development of Synthetic Graphite/Polyurethane (sg/pu)- coated copper cathodes for seawater batteries	July 2020
<b>RSU-EE-044</b>	Development and Evaluation of an Automated Solar-powered Auger-type fish feeder for Aquaponic System Application	April 2019
<b>RSU-EE-043</b>	Development and Testing of Secondary Electrical Marble Spool Insulator	March 2019
<b>RSU-EE-042</b>	Design and Development of wire temperature and overload monitoring device in residential electrical panel	March 2019
<b>RSU-EE-041</b>	Design and Development of waste heat recovery electric generator	March 2019
<b>RSU-EE-040</b>	Design, Development and testing of live wire tracing and ammeter device	March 2019
<b>RSU-EE-039</b>	Design, Development of safety monitoring and warning system device for Electrical System of the College of Engineering and Technology Building	March 2019
<b>RSU-EE-038</b>	Performance Evaluation of Romblon State University Agpudlos Campus Solar-powered water pump	March 2019
<b>RSU-EE-037</b>	Design Of Manually Operated Synchronizing Device For Diesel Power Plant	April 2018
<b>RSU-EE-036</b>	Design Of Underground Low Voltage Secondary Distribution System In Romblon State University (Main Campus)	April 2018
<b>RSU-EE-035</b>	Design Of Grid-Tied Solar Photovoltaic Roofing Of Romblon State University Quadrangle (Main Campus)	April 2018
<b>RSU-EE-034</b>	Design, Development And Evaluation Of An Automated Kilowatt-Hour Meter With Pilferage Protection System	April 2018
<b>RSU-EE-033</b>	Proposed Master Plan For Romblon State University, Main Campus Electrical System	April 2017
<b>RSU-EE-032</b>	Design, Development And Performance Evaluation Of A Solar Powered Arduino Based Heat Index Monitoring And Alarm Device (AHIMAD)	March 2017
<b>RSU-EE-031</b>	Design And Development Of An Arduino Based Solar Powered Bird Pest Deterrent Device For Agricultural Farm And Garden	March 2017



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<b>RSU-EE-030</b>	Design, Development And Testing Of Solar Powered Automatic Sprinkler Irrigation System ( SPASIS)	March 2017
<b>RSU-EE-029</b>	Development Of A Portable RF-Based Remote Controlled Switching Device (RCSD) For Common Household Electrical Appliances	March 2017
<b>RSU-EE-028</b>	Design And Development Of Arduino Based Transfer Switch System	March 2017
<b>RSU-EE-027</b>	Development Of A Prototype SMS Operated Switch For Lighting	March 2017
<b>RSU-EE-026</b>	Design And Development Of A Solar Charging Station For Laptop And Cell Phone	April 2016
<b>RSU-EE-025</b>	Design And Development Of Illumination Software For Interior Electric Lighting Calculation	April 2016
<b>RSU-EE-024</b>	Bluetooth Application For Water Supply Control System	April 2016
<b>RSU-EE-023</b>	Design And Development Of An Automated Micro-Irrigation Control System	April 2016
<b>RSU-EE-022</b>	Design And Development Of SMS- Based Fire Alarm Signaling System For Commercial And Residential Buildings	March 2016
<b>RSU-EE-021</b>	Development Of Graphite-Based Super Capacitor For Energy Storage	February 2015
<b>RSU-EE-020</b>	Development Of A Prototype Flood Level Monitoring System	February 2015
<b>RSU-EE-019</b>	Design And Development Of A 5200mah Solar Power Bank For Smart Phones And Tablet Charging	March 2015
<b>RSU-EE-018</b>	Design Of Service Lateral Line In The Romblon State University (Main Campus)	March 2014
<b>RSU-EE-017</b>	Design And Development Of Solar Powered Automatic Greenhouse Watering System At Romblon State University, Main Campus Climatic Condition	March 2014
<b>RSU-EE-016</b>	Design And Development Of Solar-Powered Programmable Automatic Chicken Feeder	March 2014
<b>RSU-EE-015</b>	Design And Development Of Prototype Automated Control And Monitoring System For Dams	April 2013
<b>RSU-EE-014</b>	Design And Development Of A Solar Powered Automated Fish Feeder	April 2012
<b>RSU-EE-013</b>	Feasibility Study For A Windmill As An Alternative Source Of Electricity At Punta, Looc, Romblon	March 2012





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<b>RSU-EE-012</b>	Proposed Electrical System Design Of Romblon State University Biomass Gasifier Building	March 2012
<b>RSU-EE-011</b>	Database On Alternative Feedstock For Biomass Gasifier In Tablas, Province Of Romblon	October 2012
<b>RSU-EE-010</b>	Power Audit On Romblon State University Information Technology Development Center	August 2011
<b>RSU-EE-009</b>	The Use Of Light Emitting Diode As An Effective Lighting System In Homes And Industries	April 2011
<b>RSU-EE-008</b>	Assessment Of Electrical Wiring Installation Of The Odiongan Commercial Center In Odiongan, Romblon	April 2011
<b>RSU-EE-007</b>	The Evaluation Of Voltage Drop Of Electrical System Of Romblon State University, Main Campus Buildings And Premises In Compliance To PEC Requirements	April 2011
<b>RSU-EE-006</b>	A Tracer Study Of The Bachelor Of Science In Electrical Engineering Graduates Of Romblon State University Main Campus Odiongan, Romblon	April 2010
<b>RSU-EE-005</b>	The Effectiveness Of Windmill Blades In Voltage Generation In Agpudlos, San Andres, Romblon: A Comparative Study	March 2010
<b>RSU-EE-004</b>	Photovoltaic: Source Of Power In Romblon State University Agpudlos, San Andres, Romblon	March 2010
<b>RSU-EE-003</b>	Street Lighting Of Romblon State University Main Campus Using Photovoltaic As Source Of Power ( Feasibility Study)	March 2010
<b>RSU-EE-002</b>	Awareness And Audit Of The Electrical Energy Consumption And Expenditures Of The Romblon State University Main Campus	March 2010
<b>RSU-EE-001</b>	The Effectiveness Of Smart Isolated Cell Sites In Tablas Island In The Province Of Romblon	March 2010



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Control No.	AGRICULTURAL ENGINEERING Title	Date Submitted
<b>RSU-AE-017</b>	Design and Development of Mobile-based Agricultural and Biosystems Engineering Reviewer	April 2019
<b>RSU-AE-016</b>	Survey of existing Small Scale Irrigation System(SSIS) and identification of potential sites for Irrigation Development in three selected barangays of Odiongan Province of Romblon	April 2019
<b>RSU-AE-015</b>	Development and Evaluation of an A-frame seaweeds dryer constructed using bamboo and bamboo connectors	April 2019
<b>RSU-AE-014</b>	Development And Test Of A Solar-Powered Automated Misting Chamber For A Clonal Nursery For Beema Bamboo (" <i>Bambusa Balcoa</i> ")	April 2018
<b>RSU-AE-013</b>	Effects Of Different Particle Size Of Rice Straw On The Physical And Mechanical Properties Of Particle Board	April 2018
<b>RSU-AE-012</b>	Production Of Tilapia, Shrimp, Lettuce And Pechay In Solar Powered Pyramidal Recirculating Aquaponics System (Sopras)	April 2018
<b>RSU-AE-011</b>	Effects Of Different Levels Of Marble Dust As Cement Replacement In The Physical And Mechanical Properties Of Concrete Hollow Blocks (CHB)	April 2018
<b>RSU-AE-010</b>	Survey Of Agricultural Mechanization In Selected Municipalities Of Tablas Island, Province Of Romblon	April 2017
<b>RSU-AE-009</b>	Survey Of Copra Drying Practices Of Farmers In Selected Municipalities Of Tablas Island, Province Of Romblon	April 2017
<b>RSU-AE-008</b>	Development And Testing Of A Solar-Powered Pyramidal Recirculating Aquaponics System	March 2017
<b>RSU-AE-007</b>	Optimizing Rice Hull, Saw Dust, Wood And Level Of Binders For Fuel Briquettes	March 2016
<b>RSU-AE-006</b>	Development And Comparison Of Hydraulic Jack And Screw Type Operated Coconut Milk Extractors	March 2016
<b>RSU-AE-005</b>	Design, Fabrication And Performance Evaluation Of Fruits And Vegetables Scrap Shredder	March 2016
<b>RSU-AE-004</b>	Design And Construction Of Manually Operated Corn Seeder Machine	April 2013
<b>RSU-AE-003</b>	Performance Evaluation of RSU Designed and Constructed of Agricultural Waste Shredder	April 2012
<b>RSU-AE-002</b>	Organic Fertilizer from Waste: Design and Construction of an Organic Waste Shredder	July 2012
<b>RSU-AE-001</b>	A Survey On the Availability and The Extent of Use of Farm Machineries in Tablas Island, Province of Romblon	March 2009